

CONSTRUCTION MANAGEMENT DEPARTMENT

The Construction Management program provides students with both the education and work experience to enter the construction profession as productive team members who possess the potential to become innovative technical problem-solvers and industry leaders. The philosophy of the program is to offer a curriculum that challenges, shapes, and encourages students to think about and apply their expanding technical knowledge and organizational skills to the solution of contemporary problems. This philosophy is supported by the educational mission of the Institute that emphasizes physics and mathematics (both theoretical and applied), humanities and social sciences, communication skills, and computer science. Students are prepared through their educational experience to adapt to changes in society, technology, and the profession.

There are several goals of the Construction Management program:

- Maintain accreditation by the American Council of Construction Education (ACCE), which promotes, supports, and accredits construction education programs.
- Successfully place students in positions appropriate for college graduates in the construction industry.
- Maintain class sizes of no more than 30 students in each lecture and no more than 20 students in each lab.
- Provide Students with the knowledge and skills to succeed in supervisory and management roles in construction related fields.

The following are the learning outcomes that will be used to assess the Construction Management program.

- Create oral presentations appropriate to the construction discipline.
- Create written communications appropriate to the construction discipline.
- Create a construction project safety plan.
- Create construction project estimates.
- Create construction project schedules.
- Analyze professional decisions based upon ethical principles.
- Analyze construction documents for planning and management of construction processes.
- Analyze methods, materials, and equipment used on construction projects.
- Apply construction management skills as an effective member of a multi-disciplinary team.
- Apply electronic-based technology to manage the construction process.
- Apply basic surveying techniques for construction layout and control.
- Analyze different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
- Understand construction risk management.
- Understand construction accounting and cost control.
- Understand construction quality assurance and control.
- Understand construction project control processes.
- Understand the legal implications of contract, common, and regulatory law to manage a construction project.

- Understand the basic principles of sustainable construction.
- Understand the basic principles of structural behavior.
- Understand the basic principles of mechanical, electrical, and piping systems.

Professor

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Associate Professor

- Payam Bakhshi, Ph.D.
- M. Ilyas Bhatti, M.S.
- Monica A. Snow, Ph.D.
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Assistant Professor

- Fope Bademosi, Ph.D.
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- William Kearney, M.S.
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